

***LineUp With Math™* Alignment**  
**2007 Mississippi Mathematics Framework**

**Content Strand: Number and Operations**

**Competency 1. Understand relationships between numbers and their properties and perform operations fluently.**

**Objectives/Benchmarks**

f. Apply ratios and use proportional reasoning to solve real-world algebraic problems.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

**Content Strand: Algebra**

**Competency 2. Understand, represent, and analyze patterns, relations, and functions.**

**Objectives/Benchmarks**

c. Explain and illustrate how changes in one variable may result in a change in another variable.

***LineUp With Math™* Activities**

--Use an interactive simulator to identify distance, rate, time conflicts in air traffic control problems and resolve the conflicts by varying plane speeds or changing plane routes.

**Content Strand: Measurement**

**Competency 4. Demonstrate and apply various formulas in problem solving situations.**

**Objectives/Benchmarks**

b. Solve real-world problems involving measurements (i.e., circumference, perimeter, area, volume, distance, temperature, etc.).

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.